

# Navneetha Rajan

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Backend engineer with **4+ years** at SIXT across distributed systems and pricing platforms serving **8M+ users**. Actively builds and ships end-to-end AI products, with **5 hackathon wins** across events with 600+ participants.

## EDUCATION

**Master of Science in Information Technology** May 2026

Arizona State University, Tempe, AZ | **Concentration:** Artificial Intelligence | **GPA: 4.0**

**Bachelor of Science in Computer Science** May 2021

PES University, Bengaluru, India | **Concentration:** Distributed Systems | **GPA: 3.6**

## WORK EXPERIENCE

**Software Engineer, Arizona State University** April 2025 – May 2026

- Built a 6-step **agentic vision pipeline** using LangChain and OpenCV that processes aerial lot images through scoped spatial reasoning steps, generating SVG layouts across 200+ campus lots with **90% accuracy** and a per-lot confidence score
- Saved **2,000+ hours** of manual design work by deploying on AWS EC2 to enable data-driven campus traffic planning

**Software Engineer II, SIXT** October 2023 – July 2024

- Designed, coded, and tested a Spring Boot + Kafka microservice for tailored offer recommendations and personalized pricing for 1M+ reservations/month, driving a **20% uplift** in booking completion rates and **18% revenue growth**
- Diagnosed a live traffic spike and redesigned connection pool limits, cutting peak **latency from 60s to 3s**
- Architected the GraphQL schema and full-stack integration for **BMW's** fleet portal, lifting user conversion by **18%**
- Rolled out **10+ flagship features** to the booking platform serving **8M+ monthly users** across 110+ countries
- Mentored 3 junior engineers, led cross-team retrospectives, and owned incident response and on-call escalations

**Software Engineer I, SIXT** August 2021 – September 2023

- Architected an entire Java microservice for auditing the rental lifecycle, delivering standardized activity history for **10M+ records**
- Migrated from a PHP/Golang monolith to Java microservices on AWS, improving **response times by 65%**
- Eliminated double bookings using a Redis session cache with optimistic locking across concurrent reservation flows
- Integrated a pickup/drop-off recommendation model using Kafka, **increasing conversion rate by 32%**
- Awarded **MVP (Top 1%)** for driving **22% revenue growth** and sustained high performance across 4 quarters

**Software Engineer Intern, Hewlett Packard Enterprise** February 2021 – July 2021

- Created an OCR pipeline to convert 40K+ unstructured records into clean datasets, **saving 100+ manual labor hours**

**Project Intern, Amazon** March 2020 – July 2020

- Implemented a regression model in Python to predict product expiry dates from incomplete datasets, achieving **93% accuracy**

## PROJECTS

**Policy Lens, Drug Coverage Intelligence (Winner, InnovationHacks26)** | *React, FastAPI, Ollama, PostgreSQL* [GitHub](#)

- Unified 1,400+ policy documents across 84 payer networks into a central schema with LLM-powered field extraction
- Built a PA Friction Score (1-10), cutting analyst research time from 2 days to 10 seconds across 400+ payers

**Arbiter, Delivery Readiness Agent (Winner, StartupVillageHacks26)** | *Next.js, React, Claude API* [GitHub](#)

- Constructed a 5-agent AI pipeline that analyzes any GitHub repo and returns a confidence-scored delivery readiness report
- Streams live agent analysis with per-agent confidence scores, blocking issues, and one-click fix prompts

## TECHNICAL SKILLS

- Languages:** Java, Python, Go, TypeScript, JavaScript, C++
- Frameworks:** Spring Boot, Maven, Kafka, FastAPI, GraphQL, RabbitMQ, Next.js, Node.js, React, LangChain
- Databases & Cloud:** PostgreSQL, Redis, Elasticsearch, AWS (EC2, S3, Lambda), Docker, Kubernetes
- Tools:** Claude Code, LLM API, Selenium, Git, CI/CD (Jenkins, GitHub Actions), Prometheus, Grafana